

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT



SUBSURFACE INVESTIGATION

STATE JOB NO. 050262

FEDERAL AID PROJECT NO. STPF-1273(1)

WEST OF WINDWOOD DR.-EAST (PASSING LANE) (S)

STATE HIGHWAY 16 SECTION 12

IN CLEBURNE COUNTY

LETTING OF AUGUST 10, 2016

The information contained herein was obtained by the Department for design and estimating purposes only. It is being furnished with the express understanding that said information does not constitute a part of the Proposal or Contract and represents only the best knowledge of the Department as to the location, character and depth of the materials encountered. The information is only included and made available so that bidders may have access to subsurface information obtained by the Department and is not intended to be a substitute for personal investigation, interpretation and judgment of the bidder. The bidder should be cognizant of the possibility that conditions affecting the cost and/or quantities of work to be performed may differ from those indicated herein.

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

July 25, 2013

TO: Mr. Trinity Smith, Engineer of Roadway Design

SUBJECT: Job No. 050262
Hwy. 25 – Pangburn (Passing Lanes) (S)
Route 16 Section 12
Cleburne County

Transmitted herewith is the requested Soil Survey, Strength Data and Resilient Modulus test results for the above referenced job. The project consists of adding two sets of passing lanes on Highway 16. Samples were obtained in the existing travel lanes, shoulders, and ditch line and along the new location.

Based on laboratory results of samples obtained, the subgrade soils consist primarily of non-plastic sands to low plasticity sand with clay, containing varying amounts of sandstone fragments. Cross-sections are not currently available, but it is assumed the construction grade line will closely match that of the existing roadway. Isolated locations of highly plastic clay were encountered within the project limits. Subgrade soils are expected to provide a stable working platform with conventional processing if the weather is favorable during construction. Embankment recommendations will be made when plans are further developed and cross-sections become available. Rock was encountered at several locations within the project limits, are shown in Table 1 below.

Table 1 Depth to Rock

Station	Location from Centerline	Depth (ft.)
117+00	20' Rt	4.0
195+00	5' Rt, 20' Rt	4.0, 3.5
243+00	C.L.	3.5
250+00	C L	3.5
259+00	5' Rt	4.8

Listed below is the additional information requested for use in developing the plans:

1. The Qualified Products List (QPL) indicates that Aggregate Base Course (Class CL-7) is available from commercial producers located in the vicinity of Rose Bud.

2. Asphalt Concrete Hot Mix

Type	Asphalt Cement %	Mineral Aggregate %
Surface Course	5.4	94.6
Binder Course	4.4	95.6
Base Course	4.1	95.9



Michael C. Benson
Materials Engineer

MCB:pt:bjj
Attachment

cc: State Constr. Eng. – Master File Copy
District 5 Engineer
Planning Div.
G. C. File

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION
MICHAEL BENSON, MATERIALS ENGINEER
*** SOIL SURVEY STRENGTH TEST REPORT ***

DATE - 07/24/2013
JOB NUMBER - 050262

SEQUENCE NO. - 1
MATERIAL CODE - SSRVPS
SPEC. YEAR - 2003
SUPPLIER ID. - 1
COUNTY/STATE - 12
DISTRICT NO. - 05

JOB NAME - HWY.25 - PANGBURN (PASSING LANES) (S)

* STATION LIMITS R-VALUE AT 240 psi *

BEGIN JOB - END JOB 25

RESILIENT MODULUS
STA.227+00 9301

REMARKS -

-
AASHTO TESTS : T190

JOB: 050262

Arkansas State Highway Transportation Department

JOB NAME: HWY.25 - PANGBURN (PASSING LANES)(S)

Materials Division

Michael Benson, Materials Engineer

COUNTY NO. 12 DATE TESTED 6/26/2013

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
125+00	19LT	0-5	BR/GR	96	92	91	87	81	43	22	A-7-6(18)	RV1220	
227+00	CL	0-5	RED	99	98	97	73	41	25	6	A-4(0)	RV1221	
101+00	5RT	0-5	BROWN	99	98	96	78	45	ND	NP	A-4(0)	S1188	14.6
101+00	19RT	0-5	BROWN	98	97	96	75	38	ND	NP	A-4(0)	S1189	17.6
109+00	6LT	0-5	BROWN	98	97	96	65	50	34	15	A-6(4)	S1190	16.9
109+00	20LT	0-5	RD/BR	99	98	97	64	44	ND	NP	A-4(0)	S1191	18.4
117+00	6RT	0-5	BR/RD	99	99	97	45	32	ND	NP	A-2-4(0)	S1192	15.6
117+00	20RT	0-4Z	RED		100	97	46	29	ND	NP	A-2-4(0)	S1193	12.3
125+00	6LT	0-5	BROWN	94	91	87	65	47	20	05	A-4(0)	S1194	10.2
125+00	19LT	0-5	BR/GR	99	98	97	94	87	43	22	A-7-6(20)	S1195	23
133+00	5RT	0-5	BROWN	99	97	96	79	47	28	8	A-4(1)	S1196	11.8
133+00	17RT	0-5	BROWN	96	94	92	75	36	ND	NP	A-4(0)	S1197	15.2
141+00	10LT	0-5	BROWN	90	88	85	67	33	ND	NP	A-2-4(0)	S1198	14.9
149+00	5LT	0-5	BROWN	98	95	92	87	59	22	4	A-4(0)	S1199	9.9
149+00	18LT	0-5	BROWN	98	96	93	90	58	24	5	A-4(1)	S1200	15.5
157+00	5RT	0-5	BROWN	97	94	91	86	59	21	5	A-4(0)	S1201	20.1
157+00	17RT	0-5	BROWN	95	92	91	84	60	24	9	A-4(3)	S1202	21.5
163+00	5LT	0-5	BROWN	95	89	85	79	44	ND	NP	A-4(0)	S1203	12.7
163+00	18LT	0-5	BROWN	96	91	87	81	48	ND	NP	A-4(0)	S1204	11.4
195+00	5RT	0-4Z	BROWN	98	94	90	75	54	21	5	A-4(0)	S1205	7.8
195+00	20RT	0-3.5Z	BROWN	96	90	84	67	45	22	6	A-4(0)	S1206	14.8
203+00	18LT	0-5	BROWN	99	97	93	85	53	26	9	A-4(2)	S1207	10
203+00	25LT	0-5	BROWN	99	96	93	86	48	22	4	A-4(0)	S1208	10.9
203+00	33LT	0-3.5Z	BROWN	94	89	84	75	45	ND	NP	A-4(0)	S1209	9.1
211+00	11LT	0-5	BROWN	98	95	92	81	48	22	5	A-4(0)	S1210	10.6
211+00	2RT	0-5	BROWN	99	96	94	81	49	20	3	A-4(0)	S1211	12.8

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Wednesday, July 24, 2013

STA.#	LOC.	DEPTH	COLOR	#4	#10	#40	#80	#200	L.L.	P.I.	SOIL CLASS	LAB #:	%MOISTURE
				S	I	E	V	E					
219+00	33LT	0-5	BR/GR	93	86	82	79	46	ND	NP	A-4(0)	S1212	13
219+00	35LT	0-5	BROWN	97	98	91	85	95	ND	NP	A-4(0)	S1213	14.3
227+00	CL	0-5	BROWN	99	99	98	81	48	29	11	A-6(2)	S1214	16.9
235+00	CL	0-5	BROWN	96	95	94	76	46	23	6	A-4(0)	S1215	24.9
243+00	CL	0-3.5Z	BROWN	84	81	79	64	43	21	7	A-4(0)	S1216	17.1
250+00	CL	0-3.5Z	BROWN	89	82	78	74	44	ND	NP	A-4(0)	S1217	20
259+00	5RT	0-4.8Z	BROWN	100	96	92	89	73	25	7	A-4(3)	S1218	20.8
259+00	20RT	0-5	BROWN	95	91	87	84	70	30	13	A-6(7)	S1219	22.8

Arkansas State Highway Transportation Department
Materials Division
Michael Benson, Materials Engineer

DATE TESTED
6/28/2013

JOB: 050262
JOB NAME: HWY.25 - PANGBURN (PASSING LANES)(S)
COUNTY NO. 12

PAVEMENT SOUNDINGS

STA.#	LOC.	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL	ACHMSC	CHIP SEAL
101+00	5RT	5.0	.25	4.25					
101+00	19RT	ACHMSC	CHIP SEAL	ACHMSC					
109+00	6LT	ACHMSC	CHIP SEAL	ACHMSC					
109+00	20LT	ACHMSC	CHIP SEAL	ACHMSC					
117+00	6RT	ACHMSC	CHIP SEAL	ACHMSC					
117+00	20RT	ACHMSC	CHIP SEAL	ACHMSC					
125+00	6LT	ACHMSC	CHIP SEAL	ACHMSC					
125+00	19LT	ACHMSC	CHIP SEAL	ACHMSC					
133+00	5RT	ACHMSC	CHIP SEAL	ACHMSC					
133+00	17RT	ACHMSC	CHIP SEAL	ACHMSC					
141+00	10LT	ACHMSC	CHIP SEAL	ACHMSC					
149+00	5LT	ACHMSC	CHIP SEAL	ACHMSC					
149+00	18LT	ACHMSC	CHIP SEAL	ACHMSC					
157+00	5RT	ACHMSC	CHIP SEAL	ACHMSC					
157+00	17RT	ACHMSC	CHIP SEAL	ACHMSC					
163+00	5LT	ACHMSC	CHIP SEAL	ACHMSC					
163+00	18LT	ACHMSC	CHIP SEAL	ACHMSC					

comment: W= MULTIPLE LAYERS, X= STRIPPED, Z= AUGER REFUSAL

Wednesday, July 24, 2013

STA.# LOC.

PAVEMENT SOUNDINGS

195+00	5RT	ACHMSC 2.75	CHIP SEAL .25	ACHMSC 7.25W	ACHMSC
195+00	20RT	ACHMSC	CHIP SEAL	ACHMSC	ACHMSC
203+00	18LT	ACHMSC 2.5	CHIP SEAL .25	ACHMSC 1.75	ACHMSC 4.0
203+00	25LT	ACHMSC 3.75	CHIP SEAL	ACHMSC	ACHMSC
203+00	33LT	ACHMSC	CHIP SEAL	ACHMSC	ACHMSC
211+00	11LT	ACHMSC 2.75	CHIP SEAL .25	ACHMSC 6.0W	ACHMSC
211+00	2RT	ACHMSC	CHIP SEAL	ACHMSC	ACHMSC
219+00	33LT	ACHMSC 3.0	CHIP SEAL .25	ACHMSC 7.0W	ACHMSC
219+00	35LT	ACHMSC	CHIP SEAL	ACHMSC	ACHMSC
227+00	CL	ACHMSC	CHIP SEAL	ACHMSC	ACHMSC
259+00	5RT	ACHMSC 10.75W			
259+00	20RT	ACHMSC			

comments: W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

Wednesday, July 24, 2013

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No.	050262	Material Code	SSRVPS
Date Sampled:	9/23/13	Station No.:	227+00
Date Tested:	July 23, 2013	Location:	CL
Name of Project:	HWY. 25 - PANGBURN (PASSING LANES)(S)		
County:	Code: 12	Name:	CLEBURNE
Sampled By:	S.FAULKNER	Depth:	0-5'
Lab No.:	20132833	AASHTO Class:	A-4(0)
Sample ID:	RV1221	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

1. Testing Information:

Preconditioning - Permanent Strain > 5% (Y=Yes or N= No)	N
Testing - Permanent Strain > 5% (Y=Yes or N=No)	N
Number of Load Sequences Completed (0-15)	15

2. Specimen Information:

Specimen Diameter (in):	
Top	4.00
Middle	4.00
Bottom	3.98
Average	3.99
Membrane Thickness (in):	0.00
Height of Specimen, Cap and Base (in):	8.04
Height of Cap and Base (in):	0.00
Initial Length, Lo (in):	8.04
Initial Area, Ao (sq. in):	12.52
Initial Volume, AoLo (cu. in):	100.70

3. Soil Specimen Weight:

Weight of Wet Soil Used (g):	3248.20
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4. Soil Properties:

Optimum Moisture Content (%):	15.5
Maximum Dry Density (pcf):	110.9
95% of MDD (pcf):	105.4
In-Situ Moisture Content (%):	N/A

5. Specimen Properties:

Wet Weight (g):	3248.20
Compaction Moisture content (%):	15.3
Compaction Wet Density (pcf):	122.91
Compaction Dry Density (pcf):	106.60
Moisture Content After Mr Test (%):	15.5

6. Quick Shear Test (Y=Yes, N=No, N/A=Not Applicable):

#VALUE!

7. Resilient Modulus, Mr:

9550(Sc)^{-0.15252}(S3)^{0.38574}

8. Comments

9. Tested By:

RC

Date: July 23, 2013

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED SAMPLES**

Job No. 050262
 Date Sampled: 9/23/13
 Date Tested: July 23, 2013
 Name of Project: HWY. 25 - PANGBURN (PASSING LANES)(S)
 County: Code: I2 Name: CLEBURNE
 Sampled By: S.FAULKNER
 Lab No.: 20132833
 Sample ID: RV1221
 LATITUDE:

Material Code SSRVPS
 Station No.: 227+00
 Location: CL

Depth: 0-5'
 AASHTO Class: A-4(0)
 Material Type (1 or 2): 2
 LONGITUDE:

PARAMETER	Chamber Confining Pressure	Nominal Maximum Axial Stress	Actual Applied Max. Axial Load		Actual Applied Cyclic Load		P _{contact} lbs	S _{max} psi	Actual Applied Cyclic Stress		S _{contact} psi	Average Recov Def. LVDT 1 and 2	Resilient Strain	Resilient Modulus
			P _{max} lbs	P _{cyclic} lbs	P _{cyclic} lbs	P _{contact} lbs			S _{cyclic} psi	S _{cyclic} psi				
DESIGNATION	S ₃ psi	S _{cyclic} psi	P _{max} lbs	P _{cyclic} lbs	P _{contact} lbs	P _{contact} lbs	S _{max} psi	S _{cyclic} psi	S _{cyclic} psi	S _{contact} psi	H _{avg} in	H _{avg} in	ε _r in/in	M _r psi
Sequence 1	6.0	2.0	25.6	23.1	2.6	2.6	2.0	1.8	1.8	0.2	0.00083	0.00010	17,731	
Sequence 2	6.0	4.0	47.8	45.3	2.6	2.6	3.8	3.6	3.6	0.2	0.00178	0.00022	16,305	
Sequence 3	6.0	6.0	70.7	67.0	3.7	3.7	5.6	5.3	5.3	0.3	0.00283	0.00035	15,214	
Sequence 4	6.0	8.0	94.0	87.8	6.3	6.3	7.5	7.0	7.0	0.5	0.00402	0.00050	14,023	
Sequence 5	6.0	10.0	117.2	108.5	8.7	8.7	9.4	8.7	8.7	0.7	0.00528	0.00066	13,191	
Sequence 6	4.0	2.0	25.2	22.6	2.6	2.6	2.0	1.8	1.8	0.2	0.00099	0.00012	14,644	
Sequence 7	4.0	4.0	47.0	44.4	2.6	2.6	3.8	3.5	3.5	0.2	0.00214	0.00027	13,334	
Sequence 8	4.0	6.0	68.4	65.6	2.8	2.8	5.5	5.2	5.2	0.2	0.00335	0.00042	12,560	
Sequence 9	4.0	8.0	91.8	86.4	5.4	5.4	7.3	6.9	6.9	0.4	0.00463	0.00058	11,988	
Sequence 10	4.0	10.0	114.5	106.6	7.9	7.9	9.1	8.5	8.5	0.6	0.00594	0.00074	11,529	
Sequence 11	2.0	2.0	24.7	22.1	2.7	2.7	2.0	1.8	1.8	0.2	0.00127	0.00016	11,126	
Sequence 12	2.0	4.0	45.6	42.8	2.8	2.8	3.6	3.4	3.4	0.2	0.00267	0.00033	10,303	
Sequence 13	2.0	6.0	66.1	63.2	2.9	2.9	5.3	5.0	5.0	0.2	0.00413	0.00051	9,824	
Sequence 14	2.0	8.0	88.3	83.5	4.7	4.7	7.0	6.7	6.7	0.4	0.00562	0.00070	9,542	
Sequence 15	2.0	10.0	110.3	103.0	7.3	7.3	8.8	8.2	8.2	0.6	0.00711	0.00088	9,301	

TESTED BY _____ DATE July 23, 2013
 RC
 REVIEWED BY _____ DATE _____

**ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
MATERIALS DIVISION**

**AASHTO T 307-99 - RESILIENT MODULUS OF SUBGRADE SOILS
RECOMPACTED / THINWALL TUBE SAMPLES**

Job No.	050262	Material Code	SSRVPS
Date Sampled:	9/23/13	Station No.:	227+00
Date Tested:	July 23, 2013	Location:	CL
Name of Project:	HWY. 25 - PANGBURN (PASSING LANES)(S)		
County:	Code: 12	Name:	CLEBURNE
Sampled By:	S.FAULKNER	Depth:	0-5'
Lab No.:	20132833	AASHTO Class:	A-4(0)
Sample ID:	RV1221	Material Type (1 or 2):	2
LATITUDE:		LONGITUDE:	

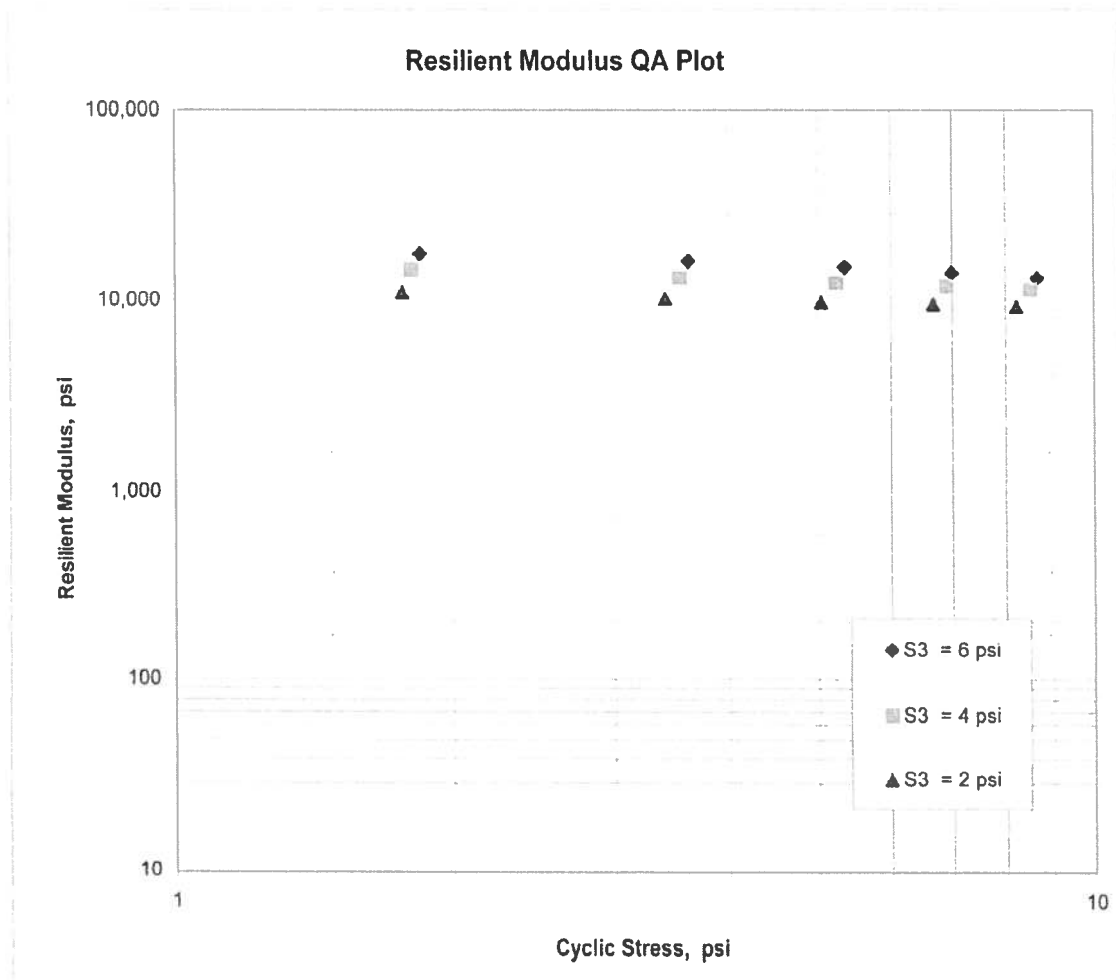
$$M_R = K_1 (S_c)^{K_2} (S_3)^{K_5}$$

$$K_1 = \underline{\underline{9,550}}$$

$$K_2 = \underline{\underline{-0.15252}}$$

$$K_5 = \underline{\underline{0.38574}}$$

$$R^2 = \underline{\underline{0.99}}$$



ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/28/13	SEQUENCE NO.	- 1
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20132801	- 20132802	- 20132803
SAMPLE ID	- S1188	- S1189	- S1190
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 101+00	- 101+00	- 109+00
LOCATION	- 5RT	- 19RT	- 6LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 11.20	- 35 26 11.10	- 35 26 11.80
LONGITUDE DEG-MIN-SEC	- 91 56 9.40	- 91 56 9.50	- 91 55 59.00
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	99	100
	NO. 4 -	98	98
	NO. 10 -	97	97
	NO. 40 -	96	96
	NO. 80 -	75	65
	NO. 200 -	38	50
LIQUID LIMIT	- ND	- ND	- 34
PLASTICITY INDEX	- NP	- NP	- 15
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-6 (4)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.6	- 17.6	- 16.9
ACHMSC (IN)	- 5.0	- --	- 2.25
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 4.25	- --	- 2.25
CHIP SEAL (IN)	- --	- --	- .25
ACHMSC (IN)	- --	- --	- 4.5
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/01/13	SEQUENCE NO.	- 2
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 06/03/13
LOCATION	- CLEBURNE, COUNTY	DATE RECEIVED	- 06/11/13
SAMPLED BY	- FAULKNER	DATE TESTED	- 06/28/13
SAMPLE FROM	- TESTHOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20132804	- 20132805	- 20132806
SAMPLE ID	- S1191	- S1192	- S1193
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 109+00	- 117+00	- 117+00
LOCATION	- 20LT	- 6RT	- 20RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-4Z
MAT'L COLOR	- RD/BR	- BR/RD	- RED
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 11.90	- 35 26 14.40	- 35 26 14.30
LONGITUDE DEG-MIN-SEC	- 91 55 59.00	- 91 55 49.70	- 91 55 49.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	-
	NO. 4 - 99	- 99	-
	NO. 10 - 98	- 99	- 100
	NO. 40 - 97	- 97	- 97
	NO. 80 - 64	- 45	- 46
	NO. 200 - 44	- 32	- 29
LIQUID LIMIT	- ND	- ND	- ND
PLASTICITY INDEX	- NP	- NP	- NP
AASHTO SOIL	- A-4 (0)	- A-2-4 (0)	- A-2-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 18.4	- 15.6	- 12.3
ACHMSC (IN)	- --	- 3.0	- --
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 1.5	- --
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 4.5	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 06/28/13 SEQUENCE NO. - 3
JOB NUMBER - 050262 MATERIAL CODE - SSRVPS
FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 12
SUPPLIER NAME - STATE DISTRICT NO. - 05
NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES)(S)
PROJECT ENGINEER - NOT APPLICABLE
PIT/QUARRY - ARKANSAS
LOCATION - CLEBURNE, COUNTY DATE SAMPLED - 06/03/13
SAMPLED BY - FAULKNER DATE RECEIVED - 06/11/13
SAMPLE FROM - TESTHOLE DATE TESTED - 06/28/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	20132807	20132808	20132809
SAMPLE ID	S1194	S1195	S1196
TEST STATUS	INFORMATION ONLY	INFORMATION ONLY	INFORMATION ONLY
STATION	125+00	125+00	133+00
LOCATION	6LT	19LT	5RT
DEPTH IN FEET	0-5	0-5	0-5
MAT'L COLOR	BROWN	BR/GR	BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	35 26 17.80	35 26 18.00	35 26 21.40
LONGITUDE DEG-MIN-SEC	91 55 41.50	91 55 41.50	91 55 32.00
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	100	-	-
3/8 IN.	98	100	100
NO. 4	94	99	99
NO. 10	91	98	97
NO. 40	87	97	96
NO. 80	65	94	79
NO. 200	47	87	47
LIQUID LIMIT	20	43	28
PLASTICITY INDEX	05	22	8
AASHTO SOIL	A-4(0)	A-7-6(20)	A-4(1)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	10.2	23.0	11.8
ACHMSC (IN)	2.5	--	2.75
CHIP SEAL (IN)	.25	--	.25
ACHMSC (IN)	1.75	--	2.25
CHIP SEAL (IN)	.25	--	.25
ACHMSC (IN)	4.0	--	4.0
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/28/13	SEQUENCE NO.	- 4
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 06/03/13
LOCATION	- CLEBURNE, COUNTY	DATE RECEIVED	- 06/11/13
SAMPLED BY	- FAULKNER	DATE TESTED	- 06/28/13
SAMPLE FROM	- TESTHOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20132810	- 20132811	- 20132812
SAMPLE ID	- S1197	- S1198	- S1199
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 133+00	- 141+00	- 149+00
LOCATION	- 17RT	- 10LT	- 5LT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 21.40	- 35 26 25.90	- 35 26 25.00
LONGITUDE DEG-MIN-SEC	- 91 55 31.90	- 91 55 23.50	- 91 55 15.30
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 98	- 93	- 100
	NO. 4 - 96	- 90	- 98
	NO. 10 - 94	- 88	- 95
	NO. 40 - 92	- 85	- 92
	NO. 80 - 75	- 67	- 87
	NO. 200 - 36	- 33	- 59
LIQUID LIMIT	- ND	- ND	- 22
PLASTICITY INDEX	- NP	- NP	- 4
AASHTO SOIL	- A-4(0)	- A-2-4(0)	- A-4(0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.2	- 14.9	- 9.9
ACHMSC (IN)	- --	- --	- 2.75
CHIP SEAL (IN)	- --	- --	- .25
ACHMSC (IN)	- --	- --	- 3.0
CHIP SEAL (IN)	- --	- --	- .25
ACHMSC (IN)	- --	- --	- 3.5W
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/28/13	SEQUENCE NO.	- 5
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES) (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20132813	- 20132814	- 20132815
SAMPLE ID	- S1200	- S1201	- S1202
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 149+00	- 157+00	- 157+00
LOCATION	- 18LT	- 5RT	- 17RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 25.10	- 35 26 23.70	- 35 26 23.50
LONGITUDE DEG-MIN-SEC	- 91 55 15.20	- 91 55 6.70	- 91 55 6.70
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	-	-
	3/8 IN. - 100	- 100	- 100
	NO. 4 - 98	- 97	- 95
	NO. 10 - 96	- 94	- 92
	NO. 40 - 93	- 91	- 91
	NO. 80 - 90	- 86	- 84
	NO. 200 - 58	- 59	- 60
LIQUID LIMIT	- 24	- 21	- 24
PLASTICITY INDEX	- 5	- 5	- 9
AASHTO SOIL	- A-4(1)	- A-4(0)	- A-4(3)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 15.5	- 20.1	- 21.5
ACHMSC	(IN) - --	- 2.75	- --
CHIP SEAL	(IN) - --	- .25	- --
ACHMSC	(IN) - --	- 1.5	- --
CHIP SEAL	(IN) - --	- .25	- --
ACHMSC	(IN) - --	- 5.5	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/01/13	SEQUENCE NO.	- 6
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES) (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY - ARKANSAS			
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20132816	- 20132817	- 20132818
SAMPLE ID	- S1203	- S1204	- S1205
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 163+00	- 163+00	- 195+00
LOCATION	- 5LT	- 18LT	- 5RT
DEPTH IN FEET	- 0-5	- 0-5	- 0-4Z
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 24.80	- 35 26 24.90	- 35 26 28.00
LONGITUDE DEG-MIN-SEC	- 91 54 59.40	- 91 54 59.40	- 91 54 31.60
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	- 100	-
	3/8 IN. - 99	- 99	- 100
	NO. 4 - 95	- 96	- 98
	NO. 10 - 89	- 91	- 94
	NO. 40 - 85	- 87	- 90
	NO. 80 - 79	- 81	- 75
	NO. 200 - 44	- 48	- 54
LIQUID LIMIT	- ND	- ND	- 21
PLASTICITY INDEX	- NP	- NP	- 5
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 12.7	- 11.4	- 7.8
ACHMSC (IN)	- 2.5	- --	- 2.75
CHIP SEAL (IN)	- .25	- --	- .25
ACHMSC (IN)	- 7.0	- --	- 7.25W
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/24/13	SEQUENCE NO.	- 7
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20132819	- 20132820	- 20132821
SAMPLE ID	- S1206	- S1207	- S1208
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 195+00	- 203+00	- 203+00
LOCATION	- 20RT	- 18LT	- 25LT
DEPTH IN FEET	- 0-3.5Z	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 27.90	- 35 26 25.20	- 35 26 25.20
LONGITUDE DEG-MIN-SEC	- 91 54 31.70	- 91 54 23.20	- 91 54 23.20
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 99	100	100
	NO. 4 - 96	99	99
	NO. 10 - 90	97	96
	NO. 40 - 84	93	93
	NO. 80 - 67	85	86
	NO. 200 - 45	53	48
LIQUID LIMIT	- 22	- 26	- 22
PLASTICITY INDEX	- 6	- 9	- 4
AASHTO SOIL	- A-4 (0)	- A-4 (2)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 14.8	- 10.0	- 10.9
ACHMSC (IN)	- --	- 2.5	- 3.75
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 1.75	- --
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 4.0	- --
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/24/13	SEQUENCE NO.	- 8
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES) (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13
MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS			

LAB NUMBER	- 20132822	- 20132823	- 20132824
SAMPLE ID	- S1209	- S1210	- S1211
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 203+00	- 211+00	- 211+00
LOCATION	- 33LT	- 11LT	- 2RT
DEPTH IN FEET	- 0-3.5Z	- 0-5	- 0-5
MAT'L COLOR	- BROWN	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 25.30	- 35 26 23.30	- 35 26 23.20
LONGITUDE DEG-MIN-SEC	- 91 54 23.20	- 91 54 13.90	- 91 54 13.90
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. - 100	-	-
	3/8 IN. - 98	100	100
	NO. 4 - 94	98	99
	NO. 10 - 89	95	96
	NO. 40 - 84	92	94
	NO. 80 - 75	81	81
	NO. 200 - 45	48	49
LIQUID LIMIT	- ND	- 22	- 20
PLASTICITY INDEX	- NP	- 5	- 3
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-4 (0)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 9.1	- 10.6	- 12.8
ACHMSC (IN)	- --	- 2.75	- --
CHIP SEAL (IN)	- --	- .25	- --
ACHMSC (IN)	- --	- 6.0W	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/24/13	SEQUENCE NO.	- 9
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS	DATE SAMPLED	- 06/03/13
LOCATION	- CLEBURNE, COUNTY	DATE RECEIVED	- 06/11/13
SAMPLED BY	- FAULKNER	DATE TESTED	- 06/28/13
SAMPLE FROM	- TESTHOLE		
MATERIAL DESC.	- SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS		

LAB NUMBER	- 20132825	- 20132826	- 20132827
SAMPLE ID	- S1212	- S1213	- S1214
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	- INFORMATION ONLY
STATION	- 219+00	- 219+00	- 227+00
LOCATION	- 33LT	- 35LT	- CL
DEPTH IN FEET	- 0-5	- 0-5	- 0-5
MAT'L COLOR	- BR/GR	- BROWN	- BROWN
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 19.10	- 35 26 19.20	- 35 26 15.40
LONGITUDE DEG-MIN-SEC	- 91 54 5.80	- 91 54 5.80	- 91 53 57.60
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	100	100
3/8 IN.	- 100	99	99
NO. 4	- 93	97	99
NO. 10	- 86	98	99
NO. 40	- 82	91	98
NO. 80	- 79	85	81
NO. 200	- 46	95	48
LIQUID LIMIT	- ND	- ND	- 29
PLASTICITY INDEX	- NP	- NP	- 11
AASHTO SOIL	- A-4 (0)	- A-4 (0)	- A-6 (2)
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 13.0	- 14.3	- 16.9
ACHMSC	(IN) - 3.0	- --	- --
CHIP SEAL	(IN) - .25	- --	- --
ACHMSC	(IN) - 7.0W	- --	- --
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
 MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE - 07/01/13 SEQUENCE NO. - 10
 JOB NUMBER - 050262 MATERIAL CODE - SSRVPS
 FEDERAL AID NO. - TO BE ASSIGNED SPEC. YEAR - 2003
 PURPOSE - SOIL SURVEY SAMPLE SUPPLIER ID. - 1
 SPEC. REMARKS - NO SPECIFICATION CHECK COUNTY/STATE - 12
 SUPPLIER NAME - STATE DISTRICT NO. - 05
 NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES) (S)
 PROJECT ENGINEER - NOT APPLICABLE
 PIT/QUARRY - ARKANSAS
 LOCATION - CLEBURNE, COUNTY DATE SAMPLED - 06/03/13
 SAMPLED BY - FAULKNER DATE RECEIVED - 06/11/13
 SAMPLE FROM - TESTHOLE DATE TESTED - 06/28/13
 MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	-	20132828	-	20132829	-	20132830
SAMPLE ID	-	S1215	-	S1216	-	S1217
TEST STATUS	-	INFORMATION ONLY	-	INFORMATION ONLY	-	INFORMATION ONLY
STATION	-	235+00	-	243+00	-	250+00
LOCATION	-	CL	-	CL	-	CL
DEPTH IN FEET	-	0-5	-	0-3.5Z	-	0-3.5Z
MAT'L COLOR	-	BROWN	-	BROWN	-	BROWN
MAT'L TYPE	-		-		-	
LATITUDE DEG-MIN-SEC	-	35 26 9.90	-	35 26 9.40	-	35 26 7.70
LONGITUDE DEG-MIN-SEC	-	91 53 50.50	-	91 53 41.80	-	91 53 34.30
% PASSING						
	2	IN.	-		-	
	1 1/2	IN.	-		-	
	3/4	IN.	-	100	-	100
	3/8	IN.	-	99	-	96
	NO. 4		-	96	-	89
	NO. 10		-	95	-	82
	NO. 40		-	94	-	78
	NO. 80		-	76	-	74
	NO. 200		-	46	-	44
LIQUID LIMIT	-	23	-	21	-	ND
PLASTICITY INDEX	-	6	-	7	-	NP
AASHTO SOIL	-	A-4(0)	-	A-4(0)	-	A-4(0)
UNIFIED SOIL	-		-		-	
% MOISTURE CONTENT	-	24.9	-	17.1	-	20.0

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

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- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 06/28/13	SEQUENCE NO.	- 11
JOB NUMBER	- 050262	MATERIAL CODE	- SSRVPS
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT - HWY.25 - PANGBURN (PASSING LANES) (S)			
PROJECT ENGINEER - NOT APPLICABLE			
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/28/13

MATERIAL DESC. - SOIL SURVEY - R VALUE- PAVEMENT SOUNDINGS

LAB NUMBER	- 20132831	- 20132832	-
SAMPLE ID	- S1218	- S1219	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- 259+00	- 259+00	-
LOCATION	- 5RT	- 20RT	-
DEPTH IN FEET	- 0-4.8Z	- 0-5	-
MAT'L COLOR	- BROWN	- BROWN	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 .20	- 35 26 .10	-
LONGITUDE DEG-MIN-SEC	- 91 53 24.00	- 91 53 24.10	-
% PASSING	2 IN. -	-	-
	1 1/2 IN. -	-	-
	3/4 IN. -	100	-
	3/8 IN. -	98	-
	NO. 4 - 100	95	-
	NO. 10 - 96	91	-
	NO. 40 - 92	87	-
	NO. 80 - 89	84	-
	NO. 200 - 73	70	-
LIQUID LIMIT	- 25	- 30	-
PLASTICITY INDEX	- 7	- 13	-
AASHTO SOIL	- A-4(3)	- A-6(7)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	- 20.8	- 22.8	-
ACHMSC	(IN) - 10.75W	- --	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-
	-	-	-

REMARKS - W=MULTIPLE LAYERS, X=STRIPPED, Z=AUGER REFUSAL

- LOCATIONS MEASURED FROM CL OF CONSTRUCTION

AASHTO TESTS : T24 T88 T89 T90 T265

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT - LITTLE ROCK, ARKANSAS
MATERIALS DIVISION

MICHAEL BENSON, MATERIALS ENGINEER

*** SOIL SURVEY / PAVEMENT SOUNDING TEST REPORT ***

DATE	- 07/01/13	SEQUENCE NO.	- 1
JOB NUMBER	- 050262	MATERIAL CODE	- RV
FEDERAL AID NO.	- TO BE ASSIGNED	SPEC. YEAR	- 2003
PURPOSE	- SOIL SURVEY SAMPLE	SUPPLIER ID.	- 1
SPEC. REMARKS	- NO SPECIFICATION CHECK	COUNTY/STATE	- 12
SUPPLIER NAME	- STATE	DISTRICT NO.	- 05
NAME OF PROJECT	- HWY.25 - PANGBURN (PASSING LANES) (S)		
PROJECT ENGINEER	- NOT APPLICABLE		
PIT/QUARRY	- ARKANSAS		
LOCATION	- CLEBURNE, COUNTY	DATE SAMPLED	- 06/03/13
SAMPLED BY	- FAULKNER	DATE RECEIVED	- 06/11/13
SAMPLE FROM	- TESTHOLE	DATE TESTED	- 06/26/13
MATERIAL DESC.	- SOIL SURVEY - RESISTANCE R-VALUE	ACTUAL RESULTS	

LAB NUMBER	- 20132833	- 20132834	-
SAMPLE ID	- RV1220	- RV1221	-
TEST STATUS	- INFORMATION ONLY	- INFORMATION ONLY	-
STATION	- 125+00	- 227+00	-
LOCATION	- 19LT	- CL	-
DEPTH IN FEET	- 0-5	- 0-5	-
MAT'L COLOR	- BR/GR	- RED	-
MAT'L TYPE	-	-	-
LATITUDE DEG-MIN-SEC	- 35 26 18.00	- 35 26 15.40	-
LONGITUDE DEG-MIN-SEC	- 91 55 41.50	- 91 53 57.60	-
% PASSING			
2 IN.	-	-	-
1 1/2 IN.	-	-	-
3/4 IN.	-	-	-
3/8 IN.	- 100	- 100	-
NO. 4	- 96	- 99	-
NO. 10	- 92	- 98	-
NO. 40	- 91	- 97	-
NO. 80	- 87	- 73	-
NO. 200	- 81	- 41	-
LIQUID LIMIT	- 43	- 25	-
PLASTICITY INDEX	- 22	- 6	-
AASHTO SOIL	- A-7-6(18)	- A-4(0)	-
UNIFIED SOIL	-	-	-
% MOISTURE CONTENT	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

REMARKS -
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AASHTO TESTS : T24 T88 T89 T90 T265
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